

# SAFETY DATA SHEET



In accordance with 1907/2006 annex II and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Amendment date 2025-01-16

Replaces SDS issued 2021-12-21

Revision date 2021-12-21

Version number 4.1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name Ditec 4A (NH)  
Article number 1004-X

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Cleaning/washing agents

### 1.3. Details of the supplier of the safety data sheet

Company Ditec International AB  
Dragrännan 2  
746 50 Bålsta  
Sweden  
Telephone +46 10 344 74 50  
E-mail info@ditecinternational.com

### 1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Upon assessment, this mixture is not classified as hazardous according to 1272/2008

### 2.2. Label elements

Hazard pictogram Not applicable  
Signal word Not applicable  
Hazard statement Not applicable

### Supplemental hazard information

EUH210 Safety data sheet available on request.

### 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>ETHYL ALCOHOL</b>		
CAS No: 64-17-5 EC No: 200-578-6 Index No: 603-002-00-5 REACH: 01-2119457610-43	Flam. Liq. 2; H225	1 - 5 %

<b>2-(2-BUTOXYETHOXY)ETHANOL</b>		
CAS No: 112-34-5 EC No: 203-961-6 Index No: 603-096-00-8 REACH: 01-2119475104-44	Eye Irrit. 2; H319	1 - 5 %
<b>AMMONIA ....%</b>		
CAS No: 1336-21-6 EC No: 215-647-6 Index No: 007-001-01-2 REACH: 01-2119488876-14	Skin Corr. 1B, STOT SE 3, Aquatic Acute 1; H314, H335, H400 <i>Specific concentration limits and acute toxicity estimates (ATE):</i> <i>STOT SE 3, H335: C ≥ 5 %</i>	<1 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms occur, call a doctor/physician.

#### Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

#### Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor.

#### Upon skin contact

Remove contaminated clothing.  
Wash the skin with soap and water.  
If symptoms occur, contact a physician.

#### Upon ingestion

Rinse nose, mouth and throat with water.  
Get medical attention if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Upon ingestion

Ingestion may cause nausea and abdominal pain.

### 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.  
Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

### 5.2. Special hazards arising from the substance or mixture

Gases detrimental to health can be spread in case of fire.

### 5.3. Advice for firefighters

Protective measures to be taken with regard to other materials at the scene of the fire.  
In case of fire use proper breathing apparatus.  
Wear full protective clothing.  
Cool closed containers that were exposed to fire with water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation and exposure to skin and eyes.  
Use recommended safety equipment, see section 8.  
Ensure good ventilation.  
Keep unauthorized and unprotected people at a safe distance.

### 6.2. Environmental precautions

Avoid release to drains, soil or watercourses.  
Please contact involved authorities if unintended release occurs.

### 6.3. Methods and material for containment and cleaning up

Small spills can be wiped up with a cloth or similar. Then flush the spill site with water. Larger spills should first be covered with sand or earth and then be collected. Collected material should be disposed according to Section 13.

### 6.4. Reference to other sections

See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.  
Do not eat, drink or smoke in premises where this product is handled.  
Avoid spillage, inhalation and contact with eyes and skin.  
Handle in premises which have modern ventilation standards.  
Use recommended safety equipment, see section 8.  
Wash your hands after using the product.  
Remove contaminated clothing.  
Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach for children.  
To be stored away from food and animal fodder and away from devices or surfaces that are in contact with those items.  
Store tightly, in original packaging.  
Always use sealed and visibly labeled packages.  
Store in a well-ventilated space.  
Store in a cool and dry place (above freezing temperature and not greater than 30°C).

### 7.3. Specific end use(s)

See identified uses in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

##### ETHYL ALCOHOL

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 1000 ppm / 1920 mg/m<sup>3</sup>

##### 2-(2-BUTOXYETHOXY)ETHANOL

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 10 ppm / 67.5 mg/m<sup>3</sup>

Short term exposure limit (STEL) 15 ppm / 101.2 mg/m<sup>3</sup>

**DNEL**  
**ETHYL ALCOHOL**

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	1900 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Inhalation	114 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	343 mg/kg bw/d
Worker	Chronic Systemic	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	950 mg/m <sup>3</sup>
Consumer	Acute Local	Dermal	950 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	87 mg/kg
Consumer	Chronic Systemic	Dermal	206 mg/kg bw/d

**2-(2-BUTOXYETHOXY)ETHANOL**

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	101.2 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Inhalation	34 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	20 mg/kg bw/d
Worker	Chronic Local	Inhalation	67.5 mg/m <sup>3</sup>
Worker	Chronic Systemic	Inhalation	67.5 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	50.6 mg/m <sup>3</sup>
Consumer	Acute Systemic	Oral	1.25 mg/kg
Consumer	Chronic Local	Inhalation	34 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Oral	5 mg/kg bw
Consumer	Chronic Systemic	Dermal	10 mg/kg bw/d

**AMMONIA ...%**

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	36 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	6.8 mg/kg
Worker	Acute Systemic	Inhalation	47.6 mg/m <sup>3</sup>

Worker	Acute Systemic	Dermal	6.8 mg/kg bw
Worker	Chronic Local	Inhalation	14 mg/m <sup>3</sup>
Worker	Chronic Systemic	Inhalation	47.6 mg/m <sup>3</sup>

## PNEC

### ETHYL ALCOHOL

Environmental protection target	PNEC value
Fresh water	0.96 mg/l
Freshwater sediments	3.6 mg/kg
Marine water	0.79 mg/l
Marine sediments	2.9 mg/kg
Microorganisms in sewage treatment	580 mg/l
Soil (agricultural)	0.63 mg/kg

### 2-(2-BUTOXYETHOXY)ETHANOL

Environmental protection target	PNEC value
Fresh water	1 mg/l
Freshwater sediments	4 mg/kg
Marine water	0.1 mg/l
Marine sediments	0.4 mg/kg
Food chain	56 mg/kg
Microorganisms in sewage treatment	200 mg/l
Soil (agricultural)	0.4 mg/kg
Intermittent	11 mg/L

### AMMONIA ....%

Environmental protection target	PNEC value
Fresh water	0.0011 mg/l
Marine water	0.011 mg/l

## 8.2. Exposure controls

Wash hands thoroughly after handling and before food intake or smoking.

### 8.2.1. Appropriate engineering controls

Handle in premises which have modern ventilation standards.

### Eye/face protection

Eye protection is not necessary during normal use.

### Skin protection

Use suitable protective gloves.

Wear suitable protective clothing when necessary.

### Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.

### 8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

(a) Physical state	Form: liquid
(b) Colour	Not indicated
(c) Odour	Not indicated
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	100 °C
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	Not indicated
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	<50 mPa·s (20 °C)
(m) Solubility	Solubility in water: Soluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	23 hPa
(p) Density and/or relative density	≈1
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not indicated

#### 9.2.2. Other safety characteristics

Not indicated

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

### 10.4. Conditions to avoid

None in particular.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

#### Acute toxicity

The product is not classified as acutely toxic.

#### ETHYL ALCOHOL

LD50 rabbit 24h: > 20000 mg/kg Dermally

LC50 rat 4h: 124.7 mg/L Inhalation

LD50 rat 24h: 6200 mg/kg Orally

## **2-(2-BUTOXYETHOXY)ETHANOL**

LD50 rabbit 24h: 2700 Dermally  
LD50 Mouse 24h: 6050 mg/kg Orally  
LD50 rabbit 24h: 2700 mg/kg Orally  
LD50 rat 24h: 2410 mg/kg Orally  
LD50 rat 24h: 6600 mg/kg Orally

## **AMMONIA ....%**

LD50 rabbit 24h: 46.4 mg/kg Dermally  
LD50 rat 24h: 350 mg/kg Orally  
LC50 rat 30min: 7.035 mg/l Inhalation

### **Skin corrosion/irritation**

No skin irritation has been detected in the event of normal use.

### **Serious eye damage/irritation**

Eye irritation has not been proven during normal use.

### **Respiratory or skin sensitisation**

The product does not contain any known allergens.

### **Germ cell mutagenicity**

No mutagenic effects have been reported for the substance in this mixture.

### **Carcinogenicity**

No carcinogenic effects have been reported for the substances in this product.

### **Reproductive toxicity**

No toxic effects to reproduction have been reported for the substances in this mixture.

### **STOT-single exposure**

No known hazards for occasional exposure.

### **STOT-repeated exposure**

No known hazards for repeated exposure.

### **Aspiration hazard**

The product is not classified as being toxic for aspiration.

## **11.2. Information on other hazards**

### **11.2.1. Endocrine disrupting properties**

Not indicated.

### **11.2.2. Other information**

Not indicated.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

The product, according to current criteria and based on available information, is considered not to be harmful to the environment.

Prevent release on land, in water and drains.

## **ETHYL ALCOHOL**

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 13480 mg/L  
LC50 fathead minnow (*Pimephales promelas*) 96h: 13480 mg/L  
LC50 Freshwater water flea (*Daphnia magna*) 48h: 5400 mg/L  
EC50 Freshwater water flea (*Daphnia magna*) 48 h: 9268 mg/L  
LC50 Ide (*Leuciscus idus*) 48h: 8140 mg/L  
EC50 Freshwater water flea (*Daphnia magna*) 24h: 10800 mg/l  
IC50 Algae 72h: > 10.9 mg/L  
LC50 Common Bleak (*Alburnus alburnus*) 96h: 11000 mg/L  
LC50 Rainbow trout (*Oncorhynchus mykiss*) 24h: 11200 mg/L  
IC50 *Pseudomonas* (*Pseudomonas putida*) 16h: 6500 mg/L

## **2-(2-BUTOXYETHOXY)ETHANOL**

EC50 Algae 96h: 1101 mg/l  
LC50 Bluegill (*Lepomis macrochirus*) 96h: 1300 mg/l  
EC50 Freshwater water flea (*Daphnia magna*) 48 h: > 100 mg/l  
EC50 Algae 72 h: > 1000 mg/l  
LC50 Fish 96h: 2700 mg/l  
LC50 Ide (*Leuciscus idus*) 48h: 1805 mg/l

### **AMMONIA ....%**

LC50 fathead minnow (*Pimephales promelas*) 96h: 8.2 mg/l  
EC50 Freshwater water flea (*Daphnia magna*) 96 h: 0.101 mg/l  
LC50 Fish 96h: 0.89 mg/l  
EC50 Water flea (*Daphnia pulex*) 48h: 0.66 mg/l

### **12.2. Persistence and degradability**

The product degrades in the natural environment.

### **12.3. Bioaccumulative potential**

Neither this product, nor its contents, accumulates in nature.

### **12.4. Mobility in soil**

The product is miscible with water and is therefore variable in soil and water.

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances that are assessed to be a PBT or a vPvB.

### **12.6. Endocrine disrupting properties**

Not indicated.

### **12.7. Other adverse effects**

No known effects or hazards.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Waste handling of the product**

The product is not classified as hazardous waste.  
Avoid discharge into sewers.  
Empty, rinsed packaging is sent for recycling where practicable.  
Residual, old or contaminated product should be disposed of at a waste management facility.  
Observe local regulations.  
See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

## **SECTION 14: Transport information**

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### **14.1. UN number or ID number**

Not classified as dangerous goods

### **14.2. UN proper shipping name**

Not applicable

### **14.3. Transport hazard class(es)**

Not applicable

### **14.4. Packing group**

Not applicable

### **14.5. Environmental hazards**

Not applicable

### **14.6. Special precautions for user**

Not applicable

### **14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

#### 14.8 Other transport information

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not indicated.

#### 15.2. Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

### SECTION 16: Other information

#### 16a. Indication of where changes have been made to the previous version of the safety data sheet Revisions of this document

Earlier versions

2021-12-21 Changes in section(s) 1.

#### 16b. Legend to abbreviations and acronyms used in the safety data sheet

##### Full texts for Hazard Class and Category Code mentioned in section 3

Flam. Liq. 2	Flammable liquids, Hazard Category 2 - Flam. Liq. 2, H225 - Highly flammable liquid and vapour
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2 - Eye Irrit. 2, H319 - Causes serious eye irritation
Skin Corr. 1B	Skin corrosion/irritation, Hazard Category 1B - Skin Corr. 1B, H314 - Causes severe skin burns and eye damage
STOT SE 3	Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation - STOT SE 3, H335 - May cause respiratory irritation
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1 - Aquatic Acute 1, H400 - Very toxic to aquatic life

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

#### 16c. Key literature references and sources for data

##### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2025-01-16.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

##### Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
2008/98/EC	DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

#### 16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of

the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

**16e. List of relevant hazard statements and/or precautionary statements**

**Full texts for hazard statements mentioned in section 3**

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

**16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

**Warning for misuse**

This product can cause harm if used improperly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

**Other relevant information**

Not indicated

**Editorial information**



This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)